

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	45496	((spin adj bulb) or mr or mre or DOMR or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjr\$1 or tmj\$1 or g11b005/39. ipc. or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1))	EPO; JPO; DERWENT	OR	OFF	2005/07/05 15:53
L2	1185670	barrier or spacer or insulat\$5 or ((separation or tunnel\$3 or nonmagnetic or non adj magnetic) near2 (layer or film or material))	EPO; JPO; DERWENT	OR	OFF	2005/07/05 16:05
L3	21083	exchange adj tab\$1 or AFM or antiferromag\$8 or anti adj ferromag\$6 or pinning or PtMn or FeMn or IrMn or FeMnRh or InMn or RhMn or RuMn or NiMn or PdPtMn or CrPdMn or NiO or Pt adj Mn or Fe adj Mn or Ir adj Mn or Fe adj Mn adj Rh or In adj Mn or Rh adj Mn or Ru adj Mn or Ni adj Mn or Pd adj Pt adj Mn or Cr adj Pd adj Mn or Ni adj O	EPO; JPO; DERWENT	OR	OFF	2005/07/05 16:05
L4	1669	1 and 2 and 3	EPO; JPO; DERWENT	OR	OFF	2005/07/05 15:54
L5	328963	(magnet or magnets or barkhausen or ((hard or vertical\$4 or longitudinal\$4) adj2 bias\$4) or mdc or domain\$ or barkhausen or popcorn or pop adj corn or wiggle or exchange adj tab\$1 or multidomain\$1 or LBS or (sole near3 magnetization\$1) or unidirectional)	EPO; JPO; DERWENT	OR	OFF	2005/07/05 16:06
L6	421	4 and 5	EPO; JPO; DERWENT	OR	OFF	2005/07/05 15:54
L7	607116	(exchang\$5 near2 (coupl\$5 or bias\$5)) or extension\$1 or extent\$1 or lateral\$5 or nickel adj oxide\$1 or NiO or Ni-O	EPO; JPO; DERWENT	OR	OFF	2005/07/05 16:08
L8	106	6 and 7	EPO; JPO; DERWENT	OR	OFF	2005/07/05 15:56
L9	53	free and 8	EPO; JPO; DERWENT	OR	OFF	2005/07/05 16:04

L10	22131	(mr or DOMR or mre or magneto adj resist\$5 or magnetoresist\$5 or amr or magnetic\$4 adj resist\$5 or gmr\$1 or spin adj valve\$1 or svmr\$1 or tjmr\$1 or tmj\$1 or tmr or mram or magnetic adj memory or magnetic adj random adj access adj memory or DSV or TJM or macro adj magnetoresist\$5 or macromagnetoresist\$5 or piggyback or ((composite or combination or merged) adj4 head\$1)).ti,ab,clm. or "360/113" or 360/313-327.33.ccls. or 428/692-693.ccls. or 338/32\$2. ccls. or 324/207.21.ccls. or 324/252.ccls. or 365/171.ccls. or 365/173.ccls.	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:04
L11	359786	(barrier or spacer or insulat\$5 or ((separation or tunnel\$3 or nonmagnetic or non adj magnetic) near2 (layer or film or material))). ti,ab,clm.	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:05
L12	7538	(exchange adj tab\$1 or AFM or antiferromag\$8 or anti adj ferromag\$6 or pinning or PtMn or FeMn or IrMn or FeMnRh or InMn or RhMn or RuMn or NiMn or PdPtMn or CrPdMn or NiO or Pt adj Mn or Fe adj Mn or Ir adj Mn or Fe adj Mn adj Rh or In adj Mn or Rh adj Mn or Ru adj Mn or Ni adj Mn or Pd adj Pt adj Mn or Cr adj Pd adj Mn or Ni adj O).ti,ab,clm.	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:06
L13	119609	((magnet or magnets or barkhausen or ((hard or vertical\$4 or longitudinal\$4) adj2 bias\$4) or mdc or domain\$ or barkhausen or popcorn or pop adj corn or wiggle or exchange adj tab\$1 or multidomain\$1 or LBS or (sole near3 magnetization\$1) or unidirectional)).ti,ab,clm.	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:06
L14	660	10 and 11 and 12 and 13	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:06
L15	18998	nickel adj oxide\$1 or NiO or Ni-O	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:07
L16	254	14 and 15	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:07
L17	189	@ad<="20020117" and 16	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:07

L18	1673835	(exchang\$5 near2 (coupl\$5 or bias\$5)) or extension\$1 or extent\$1 or lateral\$5	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:08
L19	173	17 and 18	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:08
L20	3464	CPP or current adj perpendicular	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:08
L21	19	19 and 20	US-PGPUB; USPAT	OR	OFF	2005/07/05 16:09